

SZEKULESZ, A.; SZABO, I.; KARPATI, G.; EODOKY, G.

Our experiences with liver scintillography; or: radioisotope scanning of the liver. Neoplasma (Bratisl.) 11 no.4:417-424 '64.

1. Onko-Radiologisches Institut, II Chirurgische Abteilung des Hauptstadttischen "Uzsoki"-Krankenghauses, Budapest, Ungarn.

SZABO, I., dr.; FAZAKAS, B., dr.; LASZLO, I., dr.; WAGNER, Agneta, dr.

Contributions to the study of the process of immunogenesis in animals treated with extracts of *Ascaris lumbricoides*. Microbiologia (Bucur.) 9 no.3:249-253 My-Je '64

1. Lucrare efectuata la Institutul de medicina si farmacie din Tirgu-Mures Disciplina de fiziologie s' Disciplina de parazitologie.

SZABO, Istvan, dr.

In which direction is science progressing? Term kozl 9 no.4.171-
173 Ap '65.

1. Deputy Director, National Institute of Veterinary Hygiene.
Budapest.

Veterinary Medicine

HUNGARY

SZABO, Dr. Istvan, and SUVEGES, Dr. Tibor, National Institute for Veterinary Hygiene (Országos Allategeszsegugyi Intezet)(Director: Dr Tibor KADAR, Candidate of Veterinary Sciences).

"Occurrence and Control of Lamb Dysentery Caused by Clostridium Perfringens Type E"

Budapest, Magyar Allatorvosok Lapja, Vol 21, No 8, Aug 66; pp 337-339.

Abstract [Authors' English summary, modified]: In Hungary, lamb dysentery is caused by the B type of Clostridium perfringens. Only very young lambs could be infected successfully by Cl. perfringens type B strains isolated from natural cases of the disease; lambs over several days old proved to be resistant. Hence the disease occurs mostly in lambs only a few days old, up to 2 to 3 weeks of age. 174 ewes were vaccinated with a mixture of type C and type D vaccine and 158 ewes with type C only. 25% of the lambs born to nonvaccinated ewes succumbed to lamb dysentery, while not a single such case occurred among the 393 lambs born to the 332 vaccinated ewes. 6 References, of which 4 Hungarian, 1 Russian, 1 Western.

1/1

SZABO, I.

New aspects of isolation of soil microorganisms producing antibiotics. Acta microb. hung. 2 no.1-2:9-19 1954.

1. Biologisches Forschungsinstitut der Ungarischen Akademie der Wissenschaften, Tihany.

(BACTERIA

in soil, isolation & antibiotic properties)

(ANTIBIOTICS

prod. by Actinomyces & bact. in various soil, isolation)

(SOIL, bacteriol.

antibiotic properties of bact. & Actinomyces in various soil)

(ACTINOMYCES

in various soils, antibiotic properties)

Szabo, I.,; MARTON, M.

Mutual antagonism of actinomycetes. I. Research on the actinomycetes strain M 17. Acta microb. hung 3 no.1-2:1-18 1955.

1. Bodenbiologische abteilung des Botanischen Forschungsinstituts
der Ungarischen Akademie der Wissenschaften, Sopron.
(ACTINOMYCETS
antibiotic-producing strain, research)

SZABO, I.

Determination and comparison of the proteolytic activity of mildew enzymes. p. 226.

ELEIMEZESI IPAR, Vol. 9, No. 7, July 1955

(Mezőgazdasági Ipari Tudományos Egyesület) Budapest.

SOURCE: East European Accessions List Vol. 5, No. 1 September, 1956

Country	:Hungary
Category	:Microbiology. Antibiosis and Symbiosis. Antibiotics.
Abstr. Jour	:Ref Zhur-Biol, No 23, 1958, No 103701
Author	: <u>Szabo, Istvan</u>
Institut.	: --
Title	:Data on the Antibiotic Activity of Actinomycete ^s Flora in the Soils of Hungary
Orig. Pub.	:Agrokem. es talaj., 1956, 5, No 4, 433-456
Abstract	:A study was made of the interrelations between the physico-chemical and biological properties of soils and the antibiotic activity of the microorganisms isolated from them, primarily of actinomycetes. The antibiotic activity and other properties of the microflora of 34 Hungarian soils were studied. The actinomycetes, which had been isolated from very much lixiviated acid forest soils, possessed a comparatively weak antibiotic activity. Actinomycetes from cultivated soils showed an increased antibiotic effect. Among the salty soils of the solonchaks type the most active strains of actinomycetes were found in soils with the least favorable physico-chemical
Card:	1/2

F-25

SZABO, I.

✓ Factors affecting distribution of antibiotic-producing actinomycetes. I. Sabo (Research Lab. Soil Biol.,

Hungarian Acad. Sci., Sopron). *Mikrobiologia* 25, 442-50 (1956).—The enhanced antibiotic activity of tilled soils found no explanation in a series of tests which revealed no relations connecting org. matter content, microfloral cell count, or saccharase activity with antibiotic activity. Antibiotic activity of the actinomycetes was more lethal to other actinomycetes, cultured from the same soil, than to bacteria, also cultured from the same soil. On liquid medium some actinomycetes from the same soil did, and some did not elaborate antibiotics. The antibiotic activity is attributed to competition between related actinomycete strains, especially in saline soils. Julian F. Smith

HUNGARY/Microbiology - General Microbiology, Systematics,
Morphology, Cytology:

F

Abs Jour : Ref Zhur Biol., No 22, 1958, 99238

Author : Marton, Maria; Szabo, Istvan

Inst : -

Title : Morphology and Physiology of Nocardia uniformis

Orig Pub : Agrokhen. es talaj. 1957, 6, No 4, 355-362

Abstract : No abstract.

Card 1/1

SZABO, I.

SCIENCE

PERIODICAL: KOZLEMENTEI. Vol. 8, no. 3, 1958

Szabo, I. Adsorption of cations on humus preparation. p. 393.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 2,
February 1959, Unclass.

VOROS, J.; SZABO, I.

Preparation of trichothecin by fermentation. Acta microb.hung.
6 no.2:147-152 '59.

1. Research Institute for Plant Protection, Budapest, and
Department of Fermentation, "Phylaxis" State Serum Institute,
Budapest.

(ANTIBIOTICS chem)

MARTON, M.; SZABO, I.

Nocardia uniformis, a new species from solonetz soil. *Acta
microb.hung.* 6 no.2:131-134 '59.

1. Laboratory of Soil Biology of the Hungarian Academy of
Sciences, Sopron.

(NOCARDIA)

(SOIL microbiol)

SZABO, I.

SABO, I. [Szabó, I]; MARTON, M.

Specific reciprocal inhibition in actinomycetes. Mikrobiologia 28
no.3:374-376 My-Je '59. (MIRA 13:3)

1. Laboratoriya biologii pochv Vengerskoy akademii nauk, Sapron,
Vengriya.

(ACTINOMYCES
protein specific active inhib. substance (Rus))

SZABO, Istvan; MARTON, Maria

The appearance and ecologic position of the *Streptomyces griseus* (*Actinomyces globisporus*) group in some Hungarian soils. *Agrokem talajtan* 10 no.3:405-424 S '61.

1. Magyar Tudományos Akademia Talajtani es Agrokemiai Kutato Intezete, Mikrobiologiai Osztaly.

SZABO, Istvan; LOVAS, Bela

International cooperation for studying taxonomic questions of ray
fungi. Agrokem talajtan 10 no.3:435-440 S '61.

SZABO, Istvan .

A visit to some microbiological institutes in the German Democratic Republic. Agrochem talajtan 10 no.4:573-574 D '61.

SABO, I. [Szabo, I.]; MARTON, M.

Simplified key for determining the important sections and series
of actinomycetes species which produce antibiotics. Antibiotiki
7 no.1:3-11 Ja '62. (MIRA 15:2)

1. Nauchno-issledovatel'skiy institut pochvovedeniya i agrokhimii
Vengerskoy akademii nauk, Budapesht.
(ACTINOMYCES) (ANTIBIOTICS)

MARTON, Maria; SZABO, I.

Occurrence and ecology of *Actinomyces levoris* in Hungarian soils.
Acta microb. 9 no.1:39-44 '62.

1. Institute for Soil Research and Agrochemistry of the Hungarian
Academy of Sciences, Budapest (Director I. Szabolics).
(ACTINOMYCES) (SOIL microbiology)

1. Szabo, I.
SABO, I. [Szabo, I.]; MARTON, M.; VARGA, L.; SHENFELD, Sh. [Schonfeld, S.]

Comprehensive biological studies on the rendzina. Pochvovedenie
no.10:85-95 0 '62. (MIRA 15:11)

1. Nauchno-issledovatel'skiy institut pochvovedeniya i agrokhimii
Akademii nauk Vengrii, g. Budapesht.
(Hungary--Soil biology)

SZABO, I.; MARTON, Maria; BUTI, Ilona; PARTAI, G.

Actinomyces finlayi n. sp. Acta microbiol. Hung. 10 no.3:207-214 '63.

1. Institute of Soil Research and Agrochemistry (Director: I. Szabolcs), Hungarian Academy of Sciences, Budapest.

★

SZABO, I.; MARTON, Maria

The analysis of a *Streptomyces chartreusis* population. Acta
biol. acad. sci. Hung. 15 no.1:59-64 '64.

1. Institute of Soil Science and Agricultural Chemistry, Hunga-
rian Academy of Sciences, Budapest, (Head: I. Szabolcs).

SZABO I. Az Orszagos Kozegeszsegugyi Intezet Kozponti Tuberkulozis
Diagnosztikai Laboratoriumabol. A tuberkulozis bakteriolgiai diagnosztik-
ajarol "Bacteriological diagnosis of tuberculosis "Pneumonologia Danubiana,
Budapest 1949, 2/1-3 (32-35) Tables 2

Culture examination is recommended for all specimens proving positive by
direct smear.

Ballo-Budapest (XV,4)

So: Medical Microbiology and Hygiene, Section V, Vol. 3, No. 1-6

SZABO, I.

EIDUS, L.; SOLYMOSS, B.; SZABO, I.

Tuberculostatic effects of streptomycin, PAS, PAS-propylester
and thiomycid in animal experimentation. Kiserlates Orvostud.
3 no. 5:369-373 1951. (CML 21:3)

1. Doctors. 2. Institute for Tuberculosis Diagnosis and Research
Laboratory of National Institute of Public Hygiene and Patho-
histological Laboratory of Szombathely General Hospital.

SZABO, I.

Results with culture of Mycobacterium tuberculosis in Sula's
liquid ascitic medium. Cas. lek. cesk. 90 no.26:811-813.
29 June 1951. (CIML 21:1)

1. Of the State Health Institute (Director -- Academician
Anreas Havas, M.D.) and of the Central Diagnostic and
Research Laboratory for Tuberculosis (Head -- I Szabo, M.D.)
in Budapest.

SZABO, I.

New aspect in the early diagnosis of tuberculosis. Orv. hetil. 92 no.16:
502-504 22 Apr 1951. (GIML 24:5)

1. Doctor. 2. Central Laboratory for the Diagnosis and Study of Tuberculosis (Head -- Dr. Istvan Szabo), National Pharmaceutical Institute (Director General -- Dr. Andras Havas).

Szabo, I.
BORN, J.; SZABO, I.

Tuberculostatic effect of 8-hydroxyquinoline and its derivatives.
Orv. hetil. 93 no. 13:400-402 30 Mar 1952. (CIML 23:3)

1. Doctors. 2. National Public Hygiene Institute (Director General —
Academician Dr. Andras Havas) and Public Hygiene Institute (Director —
Prof. Dr. Laszlo Dabis) of Budapest Medical University.

SZABO, I.; CZANIK, P.

Mycobacterium tuberculosis and the streptomycin resistance. Orv.
hetil. 93 no. 24:699-700 15 June 1952. (CIWL 23:3)

1. Doctors. 2. Tuberculosis Diagnosis and Research Laboratory (Head
— Dr. Istvan Szabo), National Public Hygiene Institute (Director
General — Academician Dr. Andras Havas).

SZABO, I.; CZIFFER, G.

Significance of the acid-resistant saprophytes in
diagnosis of tuberculosis. Tuberk. kerdesei 5 no.2
29-32 June 1953. (CML 25:5)

1. Doctors. 2. Kórányi State Tubercular Sanatorium
(Director - Head Physician -- Dr. Pal Dessauer) and
National Tuberculosis Diagnosis and Research Laboratory
(Head -- Dr. Istvan Szabo).

SZABO, I.

Value of the various examination methods for detection of Mycobacterium tuberculosis. Orv. hetil. 94 no. 46:1270-1275 15 Nov 1953. (CJML 25:5)

1. Doctor. 2. Diagnostic Laboratory (Head -- Dr. Istvan Szabo), National Tuberculosis Institute (Director -- Dr. Lorand Sebok).

SZABO, I.

Epidemiology of bovine tuberculosis in Hungary. Acta microb. hung.
2 no.1-2:3-7 1954.

1. Diagnostisches Laboratorium des Landesinstitutes fur Tuberkulose.
(TUBERCULOSIS, BOVINE, epidemiol.
Hungary)

SZABO I.

EDUS, Laszlo, dr.; SZABO, Istvan, dr.

New method of culture of Mycobacterium tuberculosis. Tuberk.
kerdesei 7 no.3:41-42 June 54.

1. A Budapesti Orvostudományi Egyetem Tudománygyógyászati Klinikájának
(igazgató: Kovács Ferenc, dr. egyetemi tanár) és az Országos TBC.
Intézet (vezető: Sebők László dr.) Dia gnosztikai Laboratóriumának
(vezető: Szabo István, dr.) közleménye
(MYCOBACTERIUM TUBERCULOSIS, culture,
medium, lyophil cattle plasma)
(CULTURE MEDIUMS,
blood plasma, lyophil, culture of M. tuberc.)

ANGYAL, Janos, dr.; SZABO, Istvan, dr.

The value of Black's reaction in differential diagnosis of tuberculosis and malignant tumors. Tuberk. kerdesei 7 no.4:57-58 Aug 54.

1. Orazagos Tbc Intezet (igazgato: Sebok Lorant dr.) Diagnosztikai Laboratorium (vezeto: Szabo Istvan dr.) kozlemenye.

(LUNGS, neoplasms

differ. diag. from pulm. tuberc., Black's reaction)

(TUBERCULOSIS, PULMONARY, differ. diag.

cancer of lungs, Black's reaction)

SZABO, Istvan, dr.; VANDRA, Edith, dr.

Antibiotic sensitivity of non-specific bacteria from tuberculosis patients. Tuberk. kerdesei 7 no.6:84-85 Dec 54.

1. Az Orszagos TBC Intezet (vezeto: Sebok L. dr.) Diagnosztikai Laboratorium (vezeto: Szabo I. dr.) kozlemenye.

(ANTIBIOTICS, resistance & sensitivity
non-specific bact. from tuberc. patients, sensitivity
(Hun))

(BACTERIA,
non-specific genera from tuberc. patients, antibiotic
sensitivity (Hun))

SZABO, Istvan.

~~NEETH~~, Tibor, dr; SZABO, Istvan, dr

Data on bacteriological, biological, and therapeutic activities at
the institutes for the study of tuberculosis. ~~Nepegesszegy~~ 35
no.6:157-160 June 54.

1. Kozlemeny az Orszagos Tbc. Intezet (igazgato: Sebok Lorand dr.), diagnos-
tikai laboratoriumabol (vezeto: Szabo Istvan dr.) es az Allami
Aoranyi Tudobetegyogyintezetbol (igazgato: Dessauer Pal dr.)
(TUBERCULOSIS, prevention and control,
Hungary)

SEMI, I.dr.,; FEMERVARI, E.,dr.,; SZABO, I.dr.

Intermittent INH therapy. Orv. hetil. 96 no.8:213-214 20 Feb 55.

1. Az Koranyi Tudobeteggyogyintezet es az Orszagos Tbc. Kutato
Intezet Diagnosztikai Laboratoriumanak kozlemenye.

(TUBERCULOSIS, PULMONARY, therapy,
isoniazid, intermittent technic)

(NICOTINIC ACID ISOMERS, therapeutic use,
isoniazid in pulm. tuberc., intermittent technic)

SZABO, Istvan, dr.; SEBOK, Lorand, dr.; CZANIK, Pal, dr.; LACZKO, Ede, dr.

Anti-tuberculous action of hydrazide of acetic acid cyanogen
reazide. Orv. hetil. 96 no.18:489-492 1 May 55.

1. Az Orszagos Tbc. Intezet (Igazgato: Sebok, Lorand dr.)
Diagnosztikai Laboratoriuma (vezeto: Szabo, Istvan dr.)
kozlemeny.

(ACETIC ACID, derivatives,
cyano-acetic acid hydrazide, eff. of M. tuberc. &
exper. tuberc.)

(MYCOBACTERIUM TUBERCULOSIS, effect of drugs on,
cyano-acetic acid hydrazide.)

(TUBERCULOSIS, experimental,
eff. of cyano-acetic acid hydrazide.

SZABO, I.; LUGOSI, L.

Difficulties in the type differentiation of *M. tuberculosis* due to the influence of isoniazid. Acta microb. hung. 3 no. 3:269-275 1956.

1. Diagnostisches Laboratorium des Koranyi-Institutes fur Tuberkulose.

(MYCOBACTERIUM TUBERCULOSIS, eff. of drugs on isoniazid, difficulties in type differentiation. (Ger))

(NICOTINIC ACID ISOMERS, eff. isoniazid, on *M. tuberc.*, difficulties in type differentiation. (Ger))

EXCERPTA MEDICA Sec.15 Vol.10/5 Chest Diseases May57

1313. SZABÓ I. and LUGOSI L. *Az INH-től módosult mycobakterium the typus-meghatározásának nehézségei. Difficulties in determination of the type of tubercle bacillus TUBERK. KÉRD. (Budapest) 1956, 9/1 (35-38) Graphs 2 Tables 1

In the course of their work on determination of the type of tubercle bacillus the authors observed the following: from the sputum of elderly patients, harbouring, as is well known, strains of the human type, colonies of dysgonic strains with morphologic characteristics of the bovine type were cultured during the course of INH treatment. The latter strains proved to be up to 0.69% INH resistant. In view of the fact, that these strains retain their characteristics and show lowered virulence in guinea-pigs and rabbits, it necessarily follows, that in the course of the type determination the resistance to INH should also be tested. The type of resisting strains cannot be determined, but in strains, originally of bovine type, which subsequently became resistant, renewed type determination does not come into question.

BULCSU, Gyula; SZABO, Istvan, dr.

Antituberculous effects of some new chemicals. Tuberk. kerdesei
9 no.3:107-108 June 56.

1. Orszagos Koranyi Tbc. Intezet (igaz.:Dessauer, Pal, dr.)
tud. vezető: Sebok. Lorand, dr.) Diagnosztikai Laboratoriuma
(vezető: Szabo, Istvan, dr.) és a Chinoin Gyogyszer és Vegyeszeti
Gyar (főmérnök: Mezey, Barnabas) technikai laboratoriuma. (vezető:
Foldy, Zoltan, dr.) közl.

(MYCOBACTERIUM TUBERCULOSIS, eff. of drugs on
antituberculous drugs, bioassay of new prep. (Hun))

SZABO, Istvan, dr.

Virulence of Mycobacterium tuberculosis strains cultivated from calcified foci of human lungs. Tuberkulosis 10 no.1-2:16-18 Jan-Feb 57.

1. Az Orszagos Koranyi TBC. Intezet (tudomanyos vezeto: Sebok, Lorand, dr.) Diagnosztikai Laboratorium (vezeto: Szabo, Istvan, dr.) koslemenye.
(MYCOBACTERIUM TUBERCULOSIS
virulence of strains cultivated from calcified foci of human lungs (Hun))

SZABO, Istvan, Dr.

Methods for increasing the positivity and decreasing the contamination of tuberculosis cultures in routine diagnosis of tuberculosis. Tuberkulozis 11 no.1-2:11-14 Jan-Feb 58.

1. Az Országos Koranyi Tuberkulozis Intezet (igazgato: Boszormenyi M. dr. kandidatus, tudomanyos vezeto: Foldes I. dr. kandidatus) Diagnosztikai Laboratoriumanak (Vezeto: Szabo I. dr.) kozlemenye.

(MYCOBACTERIUM TUBERCULOSIS, culture

improvement of purity by covering walls of culture dishes with triphosphate solution, technic (Hun))

SZABO, Istvan, Dr.; SZANTHA, Janos

Tuberculous contamination of cow milk in Hungary. *Hygiene* 39
no.5-6:140-142 May-June 58.

1. Közleménye az Országos Közegésztudományi Intézet (igazgató: Bosznai Miklos dr.; kandidátus, tudományos vezető: Foldes Istvan dr. kandidátus) diagnosztikai laboratóriumában (vezető: Szabo Istvan dr.) és az Országos Élelmiszer-és Táplakozástudományi Intézetben (igazgató: Tarján Robert dr. kandidátus).

(MILK, microbiol.

M. Tuberc., incidence in Hungary & detection methods (Hun))
(MYCOBACTERIUM TUBERCULOSIS

in milk, incidence in Hungary & detection methods (Hun))

SZABO, I.; KERTAY, N.

Recent observations on the distribution of extrapulmonary human tuberculosis caused by bovine type in Hungary. Acta microb.hung. 6 no.2:157-159 '59.

1. Diagnostisches Laboratorium und Mikrobiologische Abteilung
des Staatlichen Koranyi-Tuberkuloserinstitutes, Budapest.
(TUBERCULOSIS BOVINE epidemiol)

LUGOSI, Laszlo, dr.; SZABO, Istvan, dr.

Comparative evaluation of multiple cultivation of tubercle bacilli on Löwenstein-Jensen and modified Sula culture media. Tuberkulozis 12 no.11:253-257 N '59.

1. Az Országos Korányi Tbc Intézet (igazgató: Boszormenyi Miklós dr. kandidátus, tudományos vezető: Foldes István dr. kandidátus) Diagnosztikai Laboratóriumának (osztályvezető: Szabo István dr.) közleménye.

(MYCOBACTERIUM TUBERCULOSIS culture)

KOVACS, Kalman, dr.; KOTAI, Andras, dr.; SZABO, Istvan, dr.

Tuberculostatic action of a synthetic polypeptide derivative.
Tuberkulózis 12 no.11:263-264 N '59.

1. A Budapesti Eötvös L. Tudományegyetem Szervekémiai Intézetének
és az Országos Koranyi Tuberkulózis Intézet Diagnosztikai
Laboratóriumának közleménye.

(PEPTIDES pharmacol)

(MYCOBACTERIUM TUBERCULOSIS pharmacol)

SZABO, Istvan, dr.

Role of bacteriological count and method in the diagnosis of tuberculosis and in the control of convalescents. *Tuberkulozis* 13 no.3:84-86 Mr '60.

1. Az Országos Koranyi Tuberkulozis Intézet (igazgató: Boszormenyi, Miklos, dr. kandidatus, tudományos vezető: Foldes, Istvan, dr. kandidatus); Diagnosztikai Laboratóriumának (osztályvezető: Szabo, Istvan, dr. kandidatus) közleménye.
(TUBERCULOSIS diag.)

SZABO, Istvan, dr.; KERTAY, Nandor, dr.

New contributions to the importance of the bovine type in extra-pulmonary tuberculosis of man. Tuberculozis 13 no.7:198-199 J1 '60.

1. Az Országos Korányi Tbc Intézet (Igazgató: Boszormenyi Miklós dr. kandidatus; tudományos vezető: Foldes István dr. kandidatus) Diagnosztikai Laboratóriumának (Vezető: Szabo István dr. kandidatus) és Mikrobiológiai osztályának (Vezető: Kertay Nandor dr. kandidatus) közleménye.

(TUBERCULOSIS microbiol.)

DANIELLO, L.; SZABO, I.; MODY, E.; GELEPU, E.; SZEKELY, I.; ADORJAN, E.;
ERDELY, A.

Complex dysproteinemia tests in silicosis. Rumanian M Rev. no.1:
129-131 Ja-Mr '61.

1. The Clinic of Phthisiology, Cluj (Prof. L. Daniello) and the Chair
of Physiology, Tg. Mures (Assist. Prof. I Szavo).
(SILICOSIS blood) (BLOOD PROTEINS chemistry)

TARNOK, Ivan, dr.; SZABO, Istvan, dr.; CZANIK, Pal, dr.

Use of domestic hemoglobin contaminated by albumin in culture media
for M. tuberculosis. Tuberkulozis 14 no.8:252-254 Ag '61.

1. Az Orszagos "Koranyi" Tbc Intezet (Igazgato: Boszormenyi Miklos dr
kandidatus, tudomanyos vezeto: Foldes Istvan dr. kandidatus) Diagnosztikai
Laboratoriumanak (Vezeto: Szabo Istvan dr. kandidatus) kozlemenye.

(MYCOBACTERIUM TUBERCULOSIS culture)
(HEMOGLOBIN)

SZABO, Istvan, dr.

Data on bacteriological diagnostic tests performed in 1960. Tuberkulózis 14 no.10:304-305 0 '61.

1. Országos Koranyi Tbc Intezet (Igazgato: Boszormenyi Miklos dr. kandidatus, tudomanyos igazgato: Foldes Istvan dr. kandidatus) Diagnosztikai Laboratoriumnak (vezeto: Szabo Istvan dr. kandidatus) kozlemenye.

(TUBERCULOSIS diag)

SZABO, Istvan; SZEGI, Jozsef; ERDEI, Sandorne

Taxonomic studies in cellulose decomposing ray fungi. Agrochem
talajtan 2 no.1:115-122 Mr '62.

1. Magyar Tudományos Akadémia Talajtani és Agrokémiai Kutató-
intézete Mikrobiológiai Osztálya, Budapest. 2. "Agrokémia és
Talajtan" szerkesztő bizottsági tagja (for Szegi).

SAGODI, Robert, dr.; ROSZORMENYI, Miklos, dr.; SZABO, Istvan, dr.; KANITZ, Eva, dr.

Bacteriological examination of patients with sparse colonies in the sputum. Tuberkulozis 15 no.2:44-48 F '62.

1. Az Orszagos Koranyi Tbc Intezet (igazgato-foorvos: Boszormenyi Miklos dr. kandidatus, tudomanyos igazgato: Foldes Istvan dr. kandidatus) kozlemenye.

(SPUTUM microbiol) (TUBERCULOSIS PULMONARY diag)

SZABO, Istvan, dr.

The occurrence of drug-resistant Mycobacterium tuberculosis in Hungary and its importance in the evaluation of morbidity. Tuberkulozis 15 no.7:193-196 J1 '62.

1. Az Országos "Koranyi" The Intezet (igazgato-foorvos: Boszormenyi Miklos dr., kandidatus, tudomanyos vezeto: Foldes Istvan dr., kandidatus) Diagnosztikai Laboratoriumanak (vezetc: Szabo Istvan dr., kandidatus) kozlemenye.
(MYCOBACTERIUM TUBERCULOSIS pharmacol;
(ANTITUBERCULAR AGENTS pharmacol)

TARODY, Istvan; SZABO, Istvan., as orvostudományok kandidátusa

Disinfection of sewage sludge containing tuberculosis bacteria,
Hidrologiai közlony 42 no.3:338-340 Ag '62.

1. Epitesugyi Miniszterium Melyepitesi Tervezo Vallalat, Budapest (for Tarody). 2. Orszagos Koranyi TBC Intezet Diagnosztikai Laboratoriuma, Budapest (for Szabo).

SZABO, I.; VANDRA, Edith

Mycobacterium minetti (Penso et al. 1952). Bacteriological and epidemiological observations. Acta microbiol. Hung. 10 no.3:215-223 '63.

1. National Institute for Tuberculosis "Koranyi" (Director: M. Böszörményi), Budapest.

SAGODI, Robert, dr.; BOSZORMENYI, Miklos, dr.; SZABO, Istvan, dr.;
VINCZE, Egon, dr.

Bacteriological examination of surgically removed caverns and
tuberculomas. Tuberkulozis 16 no.4/5:118-121 Ap-May '63.

1. Az Országos Koranyi Tbc Intezet (igazgato-forvos:
Boszormenyi Miklos dr. kandidatus, tudomanyos igazgato:
(Foldes Istvan dr. kandidatus) kozlemenye.
(TUBERCULOSIS, PULMONARY)
(MYCOBACTERIUM TUBERCULOSIS)
(PNEUMONECTOMY)
(ANTITUBERCULAR AGENTS)

SZABO, Istvan, dr.; SAGODI, Robert, dr.

New contributions on the bacteriology of tuberculous lung specimens. Tuberkulozis 16 no.4/5:121-123 Ap-May '63.

1. Az Országos Koranyi Tbc Intezet (Igazgato: Boszormenyi Miklos dr. kandidatus, tudomanyos igazgato: Foldes Istvan dr. kandidatus) kozlmenye.

(TUBERCULOSIS, PULMONARY) (PNEUMONECTOMY)
(STAINS AND STAINING) (PHOSPHATES)
(MYCOBACTERIUM TUBERCULOSIS)

SZABO, Istvan, dr.; VANDRA, Edit, dr.

The possibility of detecting the source of infection by
determination of phage-sensitivity in tuberculosis. Tuberkulozis
16 no.4/5:123-124 Ap-May '63.

1. Az Országos Koranyi Tbc Intezet (igazgato foorvos: .
Boszormenyi Miklos dr., kandidatus; tudomanyos igazgato:
Foldes Istvan dr., kandidatus) Diagnosztikai Laboratorium
(vezeto: Szabo Istvan dr., kandidatus) kozlemenye.
(TUBERCULOSIS) (MYCOBACTERIOPHAGES)
(BACTERIOPHAGE TYPING)

SZABO, Istvan, dr.

So-called atypical mycobacterium "epidemics". Tuberkulozis 16
no.6:186-187 Je '63.

1. Az Orszagos Koranyi Tbc Intezet (igazgato*foorvos:
Boszormenyi Miklos dr., kandidatus, tudomanyos igazgato:
Foldes Istvan dr, kandidatus) Diagnosztikai Laboratoriumanak
(vezeto: Szabo Istvan dr., kandidatus) kozlemenye.
(MYCOBACTERIUM) (PHARYNX)
(WATER MICROBIOLOGY)

HATTYASY, D.; SZABO, I.; ZALAY, L.; BARANKAY, T.

Bacteriostatic effect of saliva of children with and without caries. Acta microbiol. acad. sci. Hung. 12 no.3:229-232 '65.

1. 1st Department of Stomatology (Director: D. Hattyasy), 2nd Department of Stomatology (Director: K. Toth), University Medical School, Szeged and Institute for Serum and Vaccine Production and Research "Human" (Director: G. Veres), Budapest. Submitted April 12, 1965.

L 14868-66

ACC NR: AT6007400

SOURCE CODE: HU/2505/65/026/00X/0023/0023

AUTHOR: Kellenyi, L.; Karmos, G.; Szabo, I.

ORG: Institute of Physiology, Medical University of Pecs (Pecsi Orvostudományi Egyetem, Elettani Intézet)

TITLE: Technique and use of intracerebral impedance measurements [This paper was presented at the 29th Meeting of the Hungarian Physiological Society held in Szeged from 2 to 4 July 1964]

SOURCE: Academia scientiarum hungaricae. Acta physiologica, v. 26, Supplement, 1965, 23

TOPIC TAGS: electrophysiology, neurophysiology, electrode, brain, cerebral cortex, electric impedance

ABSTRACT:

A transistorized impedance measurement system has been developed. The measurements are made with a high frequency current with an order of magnitude in $\mu\text{A-s}$ ($\Omega = 2 \times 10^5$) which is non-stimulating and has no harmful effects. The method makes it possible to control the actual position of the electrodes in the course of stereotaxic operations because the different components of the brain (gray and white matter, and cerebrospinal fluid) have different impedances. [JPRS]

SUB CODE: 06 / SUBM DATE: none

Card 1/1

HUNGARY

SZABO, Istvan, MARTON, Maria, BUTI, Ilona, and PARTAI, Geza, Institute of Soil Research and Agrochemistry at the Hungarian Academy of Sciences [original-language version not given] in Budapest (Director: SZABOLCS, I.).

"Intestinal Microflora of the Larvae of *Bibio Marci* L. Part 1: A Comparative Study of *Streptomyces* Strains Belonging to the *Griseus* Group Isolated from the Intestinal Canal"

Budapest, Acta Microbiologica Academiae Scientiarum Hungaricae, Vol 13, No 1, 2 Jun 1966, pp 47-52.

Abstract: [English article] The *Streptomyces* strains isolated from the intestinal canal and excrement of *Bibio marci* L. (St. Mark's Fly) larvae included *Actinomyces vulgaris* Nikitina et al 1960 and *Actinomyces citreofluorescens* Koreniako et al. 1960. These were different from the *griseus* strains isolated from the A_H level. 11 references, including 2 Russian, 2 German, 2 Hungarian, and 5 Western. (Manuscript received 1 Nov 1965).

1/1

SZABO. J., H. MEI UZIN

Priklady a obrazky z elektrotechniky (Electrical Engineering, Problems and Pictures)
P. 477

TECHNICKA PRACA. Bratislava, Czechoslovakia. Vol. 7, No. 10, Oct. 1955

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, September 1959
Uncl.

GERLOCZY, F.; SZABO, J.

Capillary resistance: physiological values in childhood. Acta
pediat. 4 no.1:87-85 '63.

1. First Department of Paediatrics, University Medical School,
Budapest.

(CAPILLARY RESISTANCE)

BALAZS, L.; HARSY, M.; SZABO, J.

Remark about the reduction of light intensity in electro-luminescent cells. Acta phys Hung 14 no.2 3:155-164 '62.

1. Forschungsinstitut für die Nachrichtentechnische Industrie
und Forschungsinstitut für Technische Physik der Ungarischen
Akademie der Wissenschaften, Budapest. Vorgelegt von G.
Szigeti [Gyorgy Szigeti]

SZABO, J.

SZABO, J. - Planting alfalfa seed in strips. p. 10, Vol. 11, No. 13, July 1956 -
Magyar Mezogazdasag, Budapest, Hungary

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4 - April 1957

SZABO, J.

"An introduction to plasma physics" by W.B. Thompson.
Reviewed by J. Szabo. Acta phys Hung 16 no.2:185-186 '63.

SZABO, J.

Photoelastic measurements in the infrared zone of light. p. 307

TECHNICKA PRACA. Czechoslovakia, Vol. 7, No. 7, July 1955

Monthly List of East European Accessions (EEAI), LC., Vol. 8, No. 9, September 1959
Uncl.

SZABO, J.

Diffusion resistance of various types of soils. p.67.

VILLAMOSSAG. Budapest, Hungary. Vol. 7, no. 3, Mar. 1959.

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, September 1959
Uncl.

ANGYAN, A.J.;MENYHART, L.;SZABO, J.

Electrophysiological analysis of the natural clasping activity of
frogs. Acta physiol. hung. 4 no.1-2:55-62 1953. (CJML 25:1)

1. Of the Institute of Physiology of Pecs University.

SZABO J.
(4191)

*Brucellosis lekuzdese az allami gazdasagokban, The control of brucellosis in state farms NEPEGESZSEGUGY 1953, 34/11 (287-293) Tables 6

Agglutination and complement fixation tests were carried out with a considerable number of sera taken from people employed in state farms. The samples of veterinary surgeons were found to be positive in 14.4%. In the case of people taking care of animals 9% positive results were obtained. As a contrast, only 4.5% of sera selected at random gave a positive test. The possibilities of the prevention of brucellosis in state farms are discussed.

Ivanovics - Szeged

SO: E. M. Volume 7, No. 8 - Sect. IV August 1954

GRASTYAN, E.,; LISSAK, K.,; SZABO, J.

Cortical electrical manifestations of diencephalic inhibition.
Acta physiol. hung. 7 no.3:187-198 1955.

1. Institute of physiology, University Medical School, Pecs.
(ELECTROENCEPHALOGRAPHY,
cortical manifest. of diencephalic inhib)
(DIENCEPHALON, physiology,
cortical manifest. of diencephalic inhib., EEG)
(CEREBRAL CORTEX, physiology,
cortical manifest. of diencephalic inhib., EEG)

SEABO, J.

CZECHOSLOVAKIA/Human and Animal Physiology. Nervous System.
Higher Nervous System. Behavior.

()
the Jour of Neurophysiol., No 21, 1958, 936-941.

Author : Liseck, E., Grustyan, E., Holmar, L., Babati, V.,
Rach, J., Vondra, S.

Inst : ~~Psychoneurophysiology~~
Title : Significance of the Hypothalamus and Hypocampus for
Higher Nervous Activity.

Orig Pub: Physiol. Bohemoslov., 1957, 6, No 6, 440-446.

Abstract: No abstract.

Card : 1/1

140

LISSAK, K.; GRASTYAN, E.; MOLNAR, L.; KEKESI, F.; SZABO, J.; VEREBY, G.

Significance of the hypothalamus and hippocampus in the higher nervous activity. *Cesk. fysiол.* 6 no.4:461-466 Nov 57.

1. Fysiologicky ustav lebarske fakulty, Pecs. Predneseno na Pavlovovskem zasedani v Lipsku 2. 12. 1955.

(HIPPOCAMPUS, physiology,
in higher nervous activity (Cz))

(HYPOTHALAMUS, physiology
same)

(CENTRAL NERVOUS SYSTEM, physiology
higher nervous activity, role of hippocampus & hypothalamus
(Cz))

S. Z. H. S. G. J.

COUNTRY : HUNGARY T
 CATEGORY : Human and Animal Physiology, The Nervous System
 ABS. JOUR. : RzhBiol., No. 5 1959, No. 22479
 AUTHOR : Grastyar, E.; Lissak, K.; Kekesi, F.; Szabo, J.*
 INST. : --
 TITLE : The Physiology of the Hippocampus.

ORIG. PUB. : Kiserl. orvostud., 1957, 9, No. 1, 88--99

ABSTRACT : Electrical stimulation of the hippocampus of cats, in distinction from electrical stimulation of the hypothalamus and reticular formation, inhibited (not in a reciprocal sense) spontaneous and reflex movements, as well as antagonistic (feeding and defensive) conditioned reflexes. A description is given of the characteristic changes in the EEG associated with electrical stimulation of the hippocampus during conditioned-reflex activity and during deep natural sleep. The role of the hippocampus in inhibition is considered.

Card:

1/1

* Vereby, I.

SZABO, Jacint, dr.

Closing of the anus praeternaturalis by extraperitonization of the anastomosis. *Magy. sebész. 16 no.1:34-36 Kz '63.*

1. A Miskolci Megyei Korház (Szentpeteri kapu) általános sebészeti osztályának közleménye Forvos: Herczeg László dr.
(SURGERY, OPERATIVE) (ANUS) (ABNORMALITIES)

SZABO, Jacint, dr.

On the problem of torsion of the omentum. Magyar sebész. 14 no.5:293-295
0 '61.

1. A miskolci Megyei Semmelweis Kórház (Igazgató: Kende István dr.)
I seb. osztályának (Főorvos: Tóth József dr.) közleménye.

(OMENTUM dis)

SZABO, Janos

Airplane landing by radioactive sources. Fiz szemle 13 no.7:
222-223 JI '63.

1. "Fizikai Szemle" szerkeszto bizottsagi tagja.

SZABO, Janos, okleveles gepeszmernok

Some newer aspects of the mechanization of maize growing
and harvesting. Jarmu mezo gep 8 no.10:386-389 0 '61.

1. Mezogepfejlesztési Intezet.

SZABO, Janos

Cathode ray tubes, Radiotekhnika 12 no.7:214-215 J1 '62.

SZABO, Janos, dr.

Foreign and Hungarian achievements in the increase of the
efficiency of fluorescent lamps. Hir techn 14:23-28
N Special issue '63.

SZABO, Janos

Various methods for a statistical description of plasma. Magyar fizikai folyoir 12 no.3:241-244 '64.

1. Chair of Physics, Technical University of Heavy Industry, Miskolc
and Chair of Theoretical Physics, Lorand Eotvos University, Budapest.

SEABO, J.

Computing elastically buttressed continuous girders by means of matrix
calculation. p. 71. KOHASZATI LOPAK. (magyar Benaszati es KOhaszati
Egyesulet) Budapest. Vol. 10, No. 4, Jan, 1955
6 2

SOURCE: East European Accessions List (EEAL) , Library of Congress
Vol. 5, no. 6, June 1956

Application of Hyper Matrices in Calculation of Space Frame Structures With Cyclic Symmetry.

✓ Béres, Elek; Lovass-Nagy, Viktor; und Szabó, János.
Über eine Anwendung der Hypermatrizen bei der
Berechnung von räumlichen Fachwerken mit zyklischer
Symmetrie. Magyar Tud. Akad. Mat. Kutató Int.
Közl. 1 (1956), 559-576 (1957). (Hungarian. Russian
and German summaries)

Bekanntlich lassen sich die linearen algebraischen Gleichungen, welche zur Berechnung von Spannkraften räumlicher Fachwerke dienen, zu einer einzigen Matrizen-gleichung zusammenfassen. Hat das Fachwerk eine zyklische Struktur, dann lässt sich die Koeffizientenmatrix dieser Matrixgleichung in zyklische Blöcke zerlegen. Mit Hilfe der Egerváry'schen Hypermatrizenalgorithmus entwickeln die Verfasser eine Methode zur Spektralzerlegung der Koeffizientenmatrix. Hierbei erscheint die aus zyklischen Blöcken bestehende Hypermatrix als eine Summe, deren Glieder direkte Produkte von Eigenwert-Matrizen und der entsprechenden Eigen-Dyaden sind. Diese Methode liefert einheitliche und übersichtliche Lösungsformeln zur Berechnung der Spannkraften statisch bestimmter wie statisch unbestimmter räumlicher Fachwerke, sie führt nämlich die Inversion der Koeffizientenmatrix zur Berechnung von Reziprokmatrizen der Eigenwert-Matrizen der Blöcke zurück.

Zusammenfassung der Autoren.

S2430, J.

The analysis of continuous girders on elastic supports
by the matrix method

The analysis of continuous girders on elastic supports is a problem of great practical importance. The first part introduces the basic principles of the matrix method by which a number of structural problems can be rapidly and easily solved (especially if a computing machine is made use of). A very simplified solution can be obtained if inherent values and projector matrices of the continuous matrices in question are available in tabulated form. The necessity of calculating individual projector matrices separately is seemingly a drawback until tabulated similarly to trigonometric functions. These tables could be used to advantage in the solution of different problems. The method is illustrated by a numerical example.

SZABO, J

✓ 19. The analysis of girder grilles by the matrix theory.
J. Szabo. *Melyepitvisekudhizny Szemle*. Vol. 6, 1956,
No. 3, pp. 210-212, 2 figs.

Stud
The matrix described by the author in a former paper* is used for the analysis of continuous girders on elastic supports and for the investigation of girder grilles simply supported at their edges. The analysis is based on the constancy of the Young's modulus for all structural members, the ignoring of shear deformations, on the application of connections unable to transmit torsion and on the assumption that loads only act on the points of intersection of members. The development of matrices characterizing deformations and moments is followed by the derivation of the matrix equation of the girder grille, by the aid of well known relationships between loads and moments in equidistant cross sections. The matrix equation is solved by characteristic values of developed matrices. Finally the practical application of theoretically obtained results are illustrated by concrete numerical examples.

MT

SZABO, J.

Computing the surface effect of grillages of girders in bridges with four main girders by means of the "matrix" theory.

p. 228 (Melyepitestudományi Szemle, Vol. 7, no. 7/8, July/Aug. 1957, Budapest, Hungary)

Monthly Index of East European Accessions (EEA) LC. Vol. 7, no. 2,
February 1958

Szabo, J.

Szabó, J. Application of the matrix theory to the calculation of continuous beams. Acta Tech. Acad. Sci. Hungar. 16 (1957), 175-193. (German, French and Russian summaries)

LEW

//

44359

S/044/62/000/012/015/049

A060/A000

16.1500

AUTHOR:

Szabó, J.

TITLE:

On solving the Poisson equation, the biharmonic equation, and other similar differential equations by means of matrix calculus

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 12, 1962, 57, abstract 12B258
(Einige Arbeiten Lehrstuhles Math. Lehrjahre 1956/1957. Wiss. Ver-
off. Techn. Univ. Bau- und Verkehrswesen Budapest, Budapest, 1958,
9 - 23; German)

TEXT:

The method is based on the following observation: Consider an equation $\sum C_{\alpha\beta} A^\alpha F B^\beta = P$, where the matrix F is the unknown and the scalars $C_{\alpha\beta}$ and the other matrices are known. It is not required that the matrix F be a square matrix. If the expansions $A = Q \Lambda Q^{-1}$ and $B = R M R^{-1}$, where Λ and M are diagonal matrices, are known, then the equation reduces to

$$\sum C_{\alpha\beta} \Lambda^\alpha (Q^{-1} F R) M^\beta = Q^{-1} P R$$

Card 1/2

A New Method for the Direct Numerical Solution of Dirichlet's Boundary Value Problem
(Partial Differential Equations) 16

5794:

Szabó, J. Ein neues Verfahren zur unmittelbaren numerischen Lösung der Dirichletschen Randwertaufgaben. Z. Angew. Math. Mech. 38 (1958), 280-284.

Der Verfasser untersucht das gewöhnliche Differenzenverfahren für bestimmte Typen von Randwertaufgaben mit partiellen Differentialgleichungen gerader Ordnung und rechteckigem Grundbereich. W_{ik} seien die Näherungswerte in den Gitterpunkten eines Rechteckgitters. Die $m \times n$ -Matrix $W = (W_{ik})$ lässt sich in geschlossener Form angeben:

$$W = U_m \cdot \{M \times (U_m \cdot P \cdot U_n)\} \cdot U_n.$$

U_m ist die orthogonale $m \times m$ -Matrix der Eigenvektoren einer "primitiven Kontinuantenmatrix" C_m , M enthält u.a. die Eigenwerte von C_m und C_n , die Matrix P besteht aus gegebenen Werten, und es ist $A \times B = (A_{ik} B_{ik})$ definiert. Ein numerisches Beispiel (Laplacesche Gleichung) erläutert die Anwendung der Formel.

J. Schröder (Hamburg)

SZABO, J., Kandidat der Technischen Wissenschaften; BERES, E.

On the stability of equilibrium of bars in compression with
variable cross sections. Acta techn Hung 28 no.1/2:73-86 '60
(EEAI 9:7)

1. Institut für Bauwissenschaften, Budapest (for Szabo). 2.
Technische Universität, Budapest, Lehrstuhl für Mathematik
(for Beres).
(Rods)

SANDOR, I.; SZABO, J., kandidat tekhnicheskikh nauk

Analysis of deep beams. Acta techn Hung 32 no.1/2:185-196 '61.
(EEAI 10:5)

1. Politekhnikheskiy institut stroitel'noy promyshlennosti i
transporta, kafedra matematiki, Budapesht (for Sandor). 2.
Nauchno-issledovatel'skiy institut po stroitel'stvu, Budapesht
(for Szabo).
(Girders)

SZABO, JANOS

"Comments on the 3rd General Meeting of the Engineering and Natural Science Associations (21-22 June 1952). (Emphasis is on utilization of home produced materials. Cement shortage is very serious, steel shortage too; the produced concrete is of too low quality, involving much waste. Major industrial projects were planned without a sufficiently careful survey of water availability).

SO: "Civil Engineering Review", Vol. II, No. 7, July 1952, (Hungary).

SZABO, Janos, DR.

Tasks for the architectural structural research in the second
Five year plan. Epites szemle 5 no.3:65-68 '61.

SZABO, Janos, dr., miniszterhelyettes (Budapest)

The significance and role of the mass production of concrete elements
in the development of the construction industry. Magyar ipar 10 no.11:
481-482 N '61.

PETHO, Erzsi; SZABO, Janos; BODRI, Andras; NAGY, Bela, mernok; TANAI, Sandor

Four from among many. Ujit lap 13 no.10:6 My '61.

1. Muvezeto, Ganz-MAVAG. (for Szabo) 2. Maros, Ganz-MAVAG. (for Bodri)
3. Ganz-MAVAG. 4. Lakatos, Ganz-MAVAG (for Tanai)

(Hungary—Machinery industry)

(Hungary—Iron industry and trade)

(Hungary—Steel industry and trade)

SZABO, Janos, dr.

Situation of building research and its long-range plan. Epites szemle
6 no.1:1-6 '62.

1. Epitesugyi miniszterhelyettes, Budapest.

(Hungary--Building research)

FETHO, Erzsi; SZABO, Janos, dr.

~~Deputy Minister~~, Dr. Janos Szabo, on the tasks of the construction industry. Ujit lap 15 no.8:9 25 Ap '63.

1. Epitesugyi miniszterhelyettes (for Szabo).

SZABO, Janos, Dr. chief veterinary in charge, at the Megye, Szeged, SZALAY, Janos, Dr, veterinary specialist of a state farm, Hodmezovasarhely.

"Observations Concerning the Effect of Blood on the Seminal Fluid of Bulls."

Budapest, Magyar Allatorvosok Lapja, Vol 21, No 3, Mar 66, pages 137-138.

Abstract: The effect of whole and defibrinated blood, plasma and serum on the spermatozoa of the bull was studied. Without conservation, the seminal fluid in whole or defibrinated blood, for 24 hours at room temperature, retained a maximal value of 65 per cent spermium motion and the longest activity noted was 46 hours. In blood plasma, 50 per cent spermium motility was observed after 24 hours and the longest activity was 82 hours. In serum, the values were similar to those in plasma. When plasma or serum was added to dilute spermatid fluid, the motility of the spermia was increased by 10 per cent for 10-15 minutes. No references.

1/1

- 67 -